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External Interface Specification for X12 Overview and Interface Design

Volume 1 Introduction, Enveloping, and Acknowledgements

Version 15

Prepared for

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Personnel and Readiness

And

The Defense Manpower Data Center

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997 -Functional Acknowledgement

- Minor Typographical corrections

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1. Scope

1.1. Identification

The purpose of the External Interface Specification (EIS) for X12 Overview and Interface Design document is to provide information on how the Defense Enrollment Eligibility Reporting System (DEERS) communicates with the outside world using the Accredited Standards Committee (ASC) X12 protocol. The goal of the X12 protocol is to provide a standardized message structure that allows Electronic Data Interchange (EDI) trading partners the ability to communicate in a non-proprietary format. Implementation of a standardized message gives trading partners the ability to make changes to their own systems, which do not result in dramatic modifications to their trading partners systems. For the Military Health System (MHS) to achieve the potential administrative cost savings with EDI, the standards that have been developed need to be implemented consistently by all organizations. Uniform implementation is critical to facilitate a smooth transition into the EDI environment.

1.2. System Overview

The Department of Defense (DoD) operates one of the largest health care systems worldwide. Care is provided directly through more than 160 military hospitals and 300 clinics and indirectly through TRICARE [formerly known as the Civilian Health and Medical Program of the Uniformed Services (CHAMPUS)], a cost-sharing health benefits program. The beneficiary population, estimated to be 17.2 million, includes Active Duty and Retired Army, Navy, Marine Corps, and Air Force Service members, their family members, and their survivors. In addition, legislative action and reciprocal agreements authorize the provision of health care to DoD, U.S. Coast Guard, United States Public Health Service, and National Oceanic and Atmospheric Administration personnel. This broad system of reciprocal health care delivery is referred to as MHS.

In 1974, the U. S. Congress directed DoD to initiate a program to improve the control and distribution of military health care services, to project and allocate costs for existing and planned health care programs, and to minimize fraudulent use of military health benefits by unauthorized persons. DoD recognized that such a program would require the establishment of a comprehensive database or uniform set of enrollment and eligibility information for every person entitled to military health care benefits. The task of creating such a database was complicated by the fact that required information was not uniformly maintained or consistently available from the participating Uniformed Services.

An initial requirement was the collection of enrollment and eligibility information in a consistent format from all participating Uniformed Services. The next step was the implementation of a system that would use the information to manage health benefit programs for eligible beneficiaries.

From July 1976 to July 1979, DoD conducted a series of studies and a demonstration project to examine alternative methods of implementing the enrollment/eligibility concept. The following two objectives were identified:

- Gather demographic and sociographic information on the population entitled to DoD benefits.
- Substantially reduce fraud and misuse of DoD health benefits.

To satisfy these objectives, DEERS was established in fiscal year 1979. In September 1979, a contract for the design, development, and implementation of DEERS was awarded and the system was placed in operation in February 1980.

Since that time, the original objectives and scope of DEERS have been expanded to include eligibility information for other Uniformed Services benefits and interface compatibility with other DoD systems and programs.

The DEERS Eligibility database was designed to meet the eligibility certification requirements of a wide range of health care providers and services. For example, TRICARE Fiscal Intermediaries (FIs) can query the Eligibility database as part of their claim processing cycle. In addition, CHCS personnel can inquire about eligibility before beneficiaries are admitted to Military Treatment Facilities (MTFs) and Dental Treatment Facilities (DTFs). Utilizing online Personnel update transactions, Uniformed Services personnel officers can query the Eligibility database, as well as write current information to the DEERS data records. The Eligibility database includes features that update the DEERS Enrollment database with information received through online transactions.

The Managed Care Support Contractor (MCSC) Interface is designed to provide claim and benefit relevant data to the organizations administering health benefits on behalf of the DoD Health Care Network.

1.3. Document Overview

The purpose of the EIS for X12 Overview and Interface Design document is to explain the X12 message structures that must be used by the MCSC and CHCS sites serving as an enrolling organization when sending a transaction into DEERS.

1.4. Global Document Notes

The terms "DEERS Identifier (ID) and DEERS ID" are referenced extensively throughout the EIS. The DEERS ID is actually a concatenated identification number consisting of the 9-digit DEERS Family ID and the 2-digit DEERS Beneficiary ID. The concatenation of these two ID numbers creates the DEERS ID.

2. Referenced Documents

The following documents are referenced in this document:

- ASC X12N-270/271 *Health Care Benefit Inquiry and Response,* Insurance Subcommittee, Version 4010; Washington Publishing Company, 1997.
- ASC X12N-275 Patient Information (UPDATE), Insurance Subcommittee, Version 4010; Washington Publishing Company, 1997.
- ASC X12-824 *Application Advice*, Electronic Data Interchange, X12 Standards, Draft Version 4 Release 1 (Document Number ASC X12S/97-372); 1997.
- Department of Defense DEERS/MHS *Interface Operational Description*, Version 13, dated April 14, 1999.
- DEERS Data Dictionary.
- Interface Operation Description (IOD), Version 14

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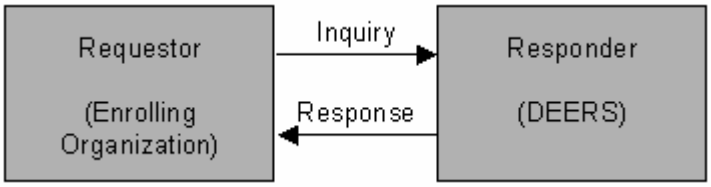
3. Interface Design

The general concept in X12, which predominates all types of transactions, is that there is an information source and an information receiver. This concept is consistent in any X12 transaction. The information source is considered to be the entity that has the answers to the questions being asked. The source is typically the payer, insurer, or an entity maintaining records. The entity regarded as the information receiver is described as the one asking the questions.

DEERS is typically considered to be the information source except in the instance of an enrollment, in which the roles are somewhat reversed.



X12 characterizes the individual who is the insured member as the 'Subscriber'. Anyone receiving health benefits because of their association with the subscriber is considered to be a 'Dependent' of that subscriber.

3.1. Interchange and Application Control Structures

Identifies options selected for implementation or exceptions to ASC X12 interchange and application control structures.

3.2. Application Control Structure Definitions and Concepts

Identifies options selected for implementation or exceptions to ASC X12 application control structure definitions and concepts.

3.3. Business Transaction Structure Definitions and Concepts

Identifies options selected for implementation or exceptions to ASC X12 business transaction structure definitions and concepts.

3.4. ICS Interchange Control Structures

Functional Group ID=

Introduction:

The purpose of this standard is to define the control structures for the electronic interchange of one or more encoded business transactions including the EDI encoded transactions of ASC X12. This standard provides the interchange envelope of a header and trailer for the electronic interchange through a data transmission, and it provides a structure to acknowledge the receipt and processing of this envelope.

Notes:

While communications flows both ways, the enveloping specification shows DMDC/DEERS as the receiver.

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ISA	Interchange Control Header	M	1		
M	020	GS	Functional Group Header	M	1		
M	030	GE	Functional Group Trailer	M	1		
M	040	IEA	Interchange Control Trailer	M	1		
	050	TA1	Interchange Acknowledgment	O	1		

Segment: **ISA** **Interchange Control Header**
Position: 010
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ISA01**	**I01**	**Authorization Information Qualifier** Code to identify the type of information in the Authorization Information 00 No Authorization Information Present (No Meaningful Information in I02)	**M ID 2/2**
M	**ISA02**	**I02**	**Authorization Information** Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01) Blank or Zero fill	**M AN 10/10**
M	**ISA03**	**I03**	**Security Information Qualifier** Code to identify the type of information in the Security Information 00 No Security Information Present (No Meaningful Information in I04)	**M ID 2/2**
M	**ISA04**	**I04**	**Security Information** This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03) Space or Zero fill	**M AN 10/10**
M	**ISA05**	**I05**	**Interchange ID Qualifier** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified ZZ Mutually Defined	**M ID 2/2**
M	**ISA06**	**I06**	**Interchange Sender ID** Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element Assigned by DMDC	**M AN 15/15**

M	**ISA07**	**I05**	**Interchange ID Qualifier**	**M**	**ID 2/2**
			Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified		
			ZZ Mutually Defined		
M	**ISA08**	**I07**	**Interchange Receiver ID**	**M**	**AN 15/15**
			Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them		
			Assigned by DMDC		
			DMDCDEERS1600NB DMDC DEERS Interchange ID		
M	**ISA09**	**I08**	**Interchange Date**	**M**	**DT 6/6**
			Date of the interchange		
M	**ISA10**	**I09**	**Interchange Time**	**M**	**TM 4/4**
			Time of the interchange		
M	**ISA11**	**I10**	**Interchange Control Standards Identifier**	**M**	**ID 1/1**
			Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer Refer to 004010 Data Element Dictionary for acceptable code values.		
M	**ISA12**	**I11**	**Interchange Control Version Number**	**M**	**ID 5/5**
			This version number covers the interchange control segments		
			00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997		
M	**ISA13**	**I12**	**Interchange Control Number**	**M**	**N0 9/9**
			A control number assigned by the interchange sender		
			Must be the same as IEA02		
M	**ISA14**	**I13**	**Acknowledgment Requested**	**M**	**ID 1/1**
			Code sent by the sender to request an interchange acknowledgment (TA1)		
			0 No Acknowledgment Requested		
M	**ISA15**	**I14**	**Usage Indicator**	**M**	**ID 1/1**
			Code to indicate whether data enclosed by this interchange envelope is test, production or information		
			P Production Data		
			T Test Data		
M	**ISA16**	**I15**	**Component Element Separator**	**M**	**AN 1/1**
			Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator		

Segment: **GS** **Functional Group Header**
Position: 020
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a functional group and to provide control information
Syntax Notes:
Semantic Notes:
1 GS04 is the group date.
2 GS05 is the group time.
3 The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.
Comments:
1 A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**GS01**	**479**	**Functional Identifier Code** Code identifying a group of application related transaction sets AG Application Advice (824) FA Functional Acknowledgment (997) HB Eligibility, Coverage or Benefit Information (271) HS Eligibility, Coverage or Benefit Inquiry (270) PI Patient Information (275)	**M ID 2/2**
M	**GS02**	**142**	**Application Sender's Code** Code identifying party sending transmission; codes agreed to by trading partners Same as Interchange Sender's ID	**M AN 2/15**
M	**GS03**	**124**	**Application Receiver's Code** Code identifying party receiving transmission; codes agreed to by trading partners Same as Interchange Receiver's ID	**M AN 2/15**
M	**GS04**	**373**	**Date** Date expressed as CCYYMMDD	**M DT 8/8**
M	**GS05**	**337**	**Time** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds	**M TM 4/8**

			are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
			Please use HHMMSS format		
M	**GS06**	**28**	**Group Control Number**	**M**	**N0 1/9**
			Assigned number originated and maintained by the sender		
			Same as GE02		
M	**GS07**	**455**	**Responsible Agency Code**	**M**	**ID 1/2**
			Code used in conjunction with Data Element 480 to identify the issuer of the standard		
			X Accredited Standards Committee X12		
M	**GS08**	**480**	**Version / Release / Industry Identifier Code**	**M**	**AN 1/12**
			Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed		
			004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997		
			Use for transaction sets other that 270 / 271		
			004010X092 HIPAA 270 / 271		

Segment: **GE** **Functional Group Trailer**
Position: 030
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of a functional group and to provide control information
Syntax Notes:
Semantic Notes: **1** The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.
Comments: **1** The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**GE01**	**97**	**Number of Transaction Sets Included** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	**M N0 1/6**
M	**GE02**	**28**	**Group Control Number** Assigned number originated and maintained by the sender Same as GS06	**M N0 1/9**

Segment: **IEA** **Interchange Control Trailer**
Position: 040
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**IEA01**	**I16**	**Number of Included Functional Groups** A count of the number of functional groups included in an interchange	**M**	**N0 1/5**
M	**IEA02**	**I12**	**Interchange Control Number** A control number assigned by the interchange sender Same as ISA13	**M**	**N0 9/9**

Segment: **TA1** **Interchange Acknowledgment**
Position: 050
Loop:
Level:
Usage: Optional
Max Use: 1
Purpose: To report the status of processing a received interchange header and trailer or the non-delivery by a network provider
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**TA101**	**I12**	**Interchange Control Number** A control number assigned by the interchange sender	**M N0 9/9**
M	**TA102**	**I08**	**Interchange Date** Date of the interchange	**M DT 6/6**
M	**TA103**	**I09**	**Interchange Time** Time of the interchange	**M TM 4/4**
M	**TA104**	**I17**	**Interchange Acknowledgment Code** This indicates the status of the receipt of the interchange control structure R – The Transmitted Interchange Control Structure Header and Trailer are Rejected Because of Errors.	**M ID 1/1**
M	**TA105**	**I18**	**Interchange Note Code** This numeric code indicates the error found processing the interchange control structure 001 – The Interchange Control Number in the Header and Trailer Do Not Match. The Value From the Header is Used in the Acknowledgment. 002 – This Standard as Noted in the Control Standards Identifier is Not Supported. 003 – This Version of the Controls is Not Supported 004 – The Segment Terminator is Invalid 005 – Invalid Interchange ID Qualifier for Sender 006 – Invalid Interchange Sender ID 007 – Invalid Interchange ID Qualifier for Receiver 008 – Invalid Interchange Receiver ID 009 – Unknown Interchange Receiver ID	**M ID 3/3**

010	Invalid Authorization Information Qualifier Value
011	Invalid Authorization Information Value
012	Invalid Security Information Qualifier Value
013	Invalid Security Information Value
014	Invalid Interchange Date Value
015	Invalid Interchange Time Value
016	Invalid Interchange Standards Identifier Value
017	Invalid Interchange Version ID Value
018	Invalid Interchange Control Number Value
019	Invalid Acknowledgment Requested Value
020	Invalid Test Indicator Value
021	Invalid Number of Included Groups Value
022	Invalid Control Structure
023	Improper (Premature) End-of-File (Transmission)
024	Invalid Interchange Content (e.g., Invalid GS Segment)
025	Duplicate Interchange Control Number
026	Invalid Data Element Separator
027	Invalid Component Element Separator
028	Invalid Delivery Date in Deferred Delivery Request
029	Invalid Delivery Time in Deferred Delivery Request
030	Invalid Delivery Time Code in Deferred Delivery Request
031	Invalid Grade of Service Code

4. Acknowledgments

4.1. 997 Functional Acknowledgment

Functional Group ID=FA

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Functional Acknowledgment Transaction Set (997) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		n1
M	020	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2			999999	
	030	AK2	Transaction Set Response Header	O	1		n3
			LOOP ID - AK3			999999	
	040	AK3	Data Segment Note	O	1		c1
	050	AK4	Data Element Note	O	99		
M	060	AK5	Transaction Set Response Trailer	M	1		
M	070	AK9	Functional Group Response Trailer	M	1		
M	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments. Nor shall a Functional Acknowledgment be sent to report errors in a previous Functional Acknowledgment.

The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgment Transaction Sets. In preparing the functional group of acknowledgments, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, one acknowledgment functional group responds to only those functional groups from one application receiver's code to one application sender's code.

There is only one Functional Acknowledgment Transaction Set per acknowledged functional group.

2. AK1 is used to respond to the functional group header and to start the acknowledgement for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.

3. AK2 is used to start the acknowledgement of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.

Transaction Set Comments

1. The data segments of this standard are used to report the results of the syntactical analysis of the functional groups of transaction sets; they report the extent to which the syntax complies with the standards for transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 997 Functional Acknowledgment	**M ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set Must be same value as SE02	**M AN 4/9**

Segment: **AK1** **Functional Group Response Header**
Position: 020
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To start acknowledgment of a functional group
Syntax Notes:
Semantic Notes:
1 AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.
2 AK102 is the functional group control number found in the GS segment in the functional group being acknowledged.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**AK101**	**479**	**Functional Identifier Code** Code identifying a group of application related transaction sets AG Application Advice (824) FA Functional Acknowledgment (997) HB Eligibility, Coverage or Benefit Information (271) HS Eligibility, Coverage or Benefit Inquiry (270) PI Patient Information (275)	**M ID 2/2**
M	**AK102**	**28**	**Group Control Number** Assigned number originated and maintained by the sender	**M N0 1/9**

Segment: **AK2** **Transaction Set Response Header**
Position: 030
Loop: AK2 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To start acknowledgment of a single transaction set
Syntax Notes:
Semantic Notes: **1** AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.
2 AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**AK201**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 270 Eligibility, Coverage or Benefit Inquiry 271 Eligibility, Coverage or Benefit Information 275 Patient Information 824 Application Advice	**M ID 3/3**
M	**AK202**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

Segment: **AK3** **Data Segment Note**
Position: 040
Loop: AK3 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To report errors in a data segment and identify the location of the data segment
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**AK301**	**721**	**Segment ID Code** Code defining the segment ID of the data segment in error (See Appendix A - Number 77)	**M**	**ID 2/3**
M	**AK302**	**719**	**Segment Position in Transaction Set** The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1	**M**	**N0 1/6**
	AK303	**447**	**Loop Identifier Code** The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE	**O**	**AN 1/6**
	AK304	**720**	**Segment Syntax Error Code** Code indicating error found based on the syntax editing of a segment 1 Unrecognized segment ID 2 Unexpected segment 3 Mandatory segment missing 4 Loop Occurs Over Maximum Times 5 Segment Exceeds Maximum Use 6 Segment Not in Defined Transaction Set 7 Segment Not in Proper Sequence 8 Segment Has Data Element Errors	**O**	**ID 1/3**

Segment: **AK4** **Data Element Note**
Position: 050
Loop: AK3 Optional
Level:
Usage: Optional
Max Use: 99
Purpose: To report errors in a data element or composite data structure and identify the location of the data element
Syntax Notes:
Semantic Notes: **1** In no case shall a value be used for AK404 that would generate a syntax error, e.g., an invalid character.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**AK401**	**C030**	**Position in Segment**	**M**	
			Code indicating the relative position of a simple data element, or the relative position of a composite data structure combined with the relative position of the component data element within the composite data structure, in error; the count starts with 1 for the simple data element or composite data structure immediately following the segment ID		
M	**C03001**	**722**	**Element Position in Segment**	**M**	**N0 1/2**
			This is used to indicate the relative position of a simple data element, or the relative position of a composite data structure with the relative position of the component within the composite data structure, in error; in the data segment the count starts with 1 for the simple data element or composite data structure immediately following the segment ID		
	C03002	**1528**	**Component Data Element Position in Composite**	**O**	**N0 1/2**
			To identify the component data element position within the composite that is in error		
	AK402	**725**	**Data Element Reference Number**	**O**	**N0 1/4**
			Reference number used to locate the data element in the Data Element Dictionary		
M	**AK403**	**723**	**Data Element Syntax Error Code**	**M**	**ID 1/3**
			Code indicating the error found after syntax edits of a data element		
			1 Mandatory data element missing		
			2 Conditional required data element missing.		
			3 Too many data elements.		
			4 Data element too short.		
			5 Data element too long.		
			6 Invalid character in data element.		

		7	Invalid code value.		
		8	Invalid Date		
		9	Invalid Time		
		10	Exclusion Condition Violated		
AK404	**724**	**Copy of Bad Data Element**		**O**	**AN 1/99**
		This is a copy of the data element in error			

Segment: **AK5** **Transaction Set Response Trailer**
Position: 060
Loop: AK2 Optional
Level:
Usage: Mandatory
Max Use: 1
Purpose: To acknowledge acceptance or rejection and report errors in a transaction set
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**AK501**	**717**	**Transaction Set Acknowledgment Code** Code indicating accept or reject condition based on the syntax editing of the transaction set A Accepted E Accepted But Errors Were Noted M Rejected, Message Authentication Code (MAC) Failed R Rejected W Rejected, Assurance Failed Validity Tests X Rejected, Content After Decryption Could Not Be Analyzed	**M ID 1/1**
	AK502	**718**	**Transaction Set Syntax Error Code** Code indicating error found based on the syntax editing of a transaction set 1 Transaction Set Not Supported 2 Transaction Set Trailer Missing 3 Transaction Set Control Number in Header and Trailer Do Not Match 4 Number of Included Segments Does Not Match Actual Count 5 One or More Segments in Error 6 Missing or Invalid Transaction Set Identifier 7 Missing or Invalid Transaction Set Control Number 8 Authentication Key Name Unknown 9 Encryption Key Name Unknown 10 Requested Service (Authentication or Encrypted) Not Available 11 Unknown Security Recipient	**O ID 1/3**

12	Incorrect Message Length (Encryption Only)
13	Message Authentication Code Failed
15	Unknown Security Originator
16	Syntax Error in Decrypted Text
17	Security Not Supported
23	Transaction Set Control Number Not Unique within the Functional Group
24	S3E Security End Segment Missing for S3S Security Start Segment
25	S3S Security Start Segment Missing for S3E Security End Segment
26	S4E Security End Segment Missing for S4S Security Start Segment
27	S4S Security Start Segment Missing for S4E Security End Segment

AK503 718 Transaction Set Syntax Error Code O ID 1/3

Code indicating error found based on the syntax editing of a transaction set

1	Transaction Set Not Supported
2	Transaction Set Trailer Missing
3	Transaction Set Control Number in Header and Trailer Do Not Match
4	Number of Included Segments Does Not Match Actual Count
5	One or More Segments in Error
6	Missing or Invalid Transaction Set Identifier
7	Missing or Invalid Transaction Set Control Number
8	Authentication Key Name Unknown
9	Encryption Key Name Unknown
10	Requested Service (Authentication or Encrypted) Not Available
11	Unknown Security Recipient
12	Incorrect Message Length (Encryption Only)
13	Message Authentication Code Failed
15	Unknown Security Originator
16	Syntax Error in Decrypted Text
17	Security Not Supported
23	Transaction Set Control Number Not Unique within the Functional Group
24	S3E Security End Segment Missing for S3S Security Start Segment
25	S3S Security Start Segment Missing for S3E Security End Segment
26	S4E Security End Segment Missing for S4S Security Start

		Segment		
	27	S4S Security Start Segment Missing for S4E Security End Segment		
AK504	**718**	**Transaction Set Syntax Error Code**	**O**	**ID 1/3**
		Code indicating error found based on the syntax editing of a transaction set		
	1	Transaction Set Not Supported		
	2	Transaction Set Trailer Missing		
	3	Transaction Set Control Number in Header and Trailer Do Not Match		
	4	Number of Included Segments Does Not Match Actual Count		
	5	One or More Segments in Error		
	6	Missing or Invalid Transaction Set Identifier		
	7	Missing or Invalid Transaction Set Control Number		
	8	Authentication Key Name Unknown		
	9	Encryption Key Name Unknown		
	10	Requested Service (Authentication or Encrypted) Not Available		
	11	Unknown Security Recipient		
	12	Incorrect Message Length (Encryption Only)		
	13	Message Authentication Code Failed		
	15	Unknown Security Originator		
	16	Syntax Error in Decrypted Text		
	17	Security Not Supported		
	23	Transaction Set Control Number Not Unique within the Functional Group		
	24	S3E Security End Segment Missing for S3S Security Start Segment		
	25	S3S Security Start Segment Missing for S3E Security End Segment		
	26	S4E Security End Segment Missing for S4S Security Start Segment		
	27	S4S Security Start Segment Missing for S4E Security End Segment		
AK505	**718**	**Transaction Set Syntax Error Code**	**O**	**ID 1/3**
		Code indicating error found based on the syntax editing of a transaction set		
	1	Transaction Set Not Supported		
	2	Transaction Set Trailer Missing		
	3	Transaction Set Control Number in Header and Trailer Do Not Match		
	4	Number of Included Segments Does Not Match Actual Count		
	5	One or More Segments in Error		

		6	Missing or Invalid Transaction Set Identifier
		7	Missing or Invalid Transaction Set Control Number
		8	Authentication Key Name Unknown
		9	Encryption Key Name Unknown
		10	Requested Service (Authentication or Encrypted) Not Available
		11	Unknown Security Recipient
		12	Incorrect Message Length (Encryption Only)
		13	Message Authentication Code Failed
		15	Unknown Security Originator
		16	Syntax Error in Decrypted Text
		17	Security Not Supported
		23	Transaction Set Control Number Not Unique within the Functional Group
		24	S3E Security End Segment Missing for S3S Security Start Segment
		25	S3S Security Start Segment Missing for S3E Security End Segment
		26	S4E Security End Segment Missing for S4S Security Start Segment
		27	S4S Security Start Segment Missing for S4E Security End Segment
AK506	**718**	**Transaction Set Syntax Error Code**	**O ID 1/3**
		Code indicating error found based on the syntax editing of a transaction set	
		1	Transaction Set Not Supported
		2	Transaction Set Trailer Missing
		3	Transaction Set Control Number in Header and Trailer Do Not Match
		4	Number of Included Segments Does Not Match Actual Count
		5	One or More Segments in Error
		6	Missing or Invalid Transaction Set Identifier
		7	Missing or Invalid Transaction Set Control Number
		8	Authentication Key Name Unknown
		9	Encryption Key Name Unknown
		10	Requested Service (Authentication or Encrypted) Not Available
		11	Unknown Security Recipient
		12	Incorrect Message Length (Encryption Only)
		13	Message Authentication Code Failed
		15	Unknown Security Originator
		16	Syntax Error in Decrypted Text

17	Security Not Supported
23	Transaction Set Control Number Not Unique within the Functional Group
24	S3E Security End Segment Missing for S3S Security Start Segment
25	S3S Security Start Segment Missing for S3E Security End Segment
26	S4E Security End Segment Missing for S4S Security Start Segment
27	S4S Security Start Segment Missing for S4E Security End Segment

Segment: **AK9** **Functional Group Response Trailer**
Position: 070
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To acknowledge acceptance or rejection of a functional group and report the number of included transaction sets from the original trailer, the accepted sets, and the received sets in this functional group
Syntax Notes:
Semantic Notes:
Comments: **1** If AK901 contains the value "A" or "E", then the transmitted functional group is accepted.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**AK901**	**715**	**Functional Group Acknowledge Code** Code indicating accept or reject condition based on the syntax editing of the functional group A Accepted E Accepted, But Errors Were Noted. M Rejected, Message Authentication Code (MAC) Failed P Partially Accepted, At Least One Transaction Set Was Rejected R Rejected W Rejected, Assurance Failed Validity Tests X Rejected, Content After Decryption Could Not Be Analyzed	**M ID 1/1**
M	**AK902**	**97**	**Number of Transaction Sets Included** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	**M N0 1/6**
M	**AK903**	**123**	**Number of Received Transaction Sets** Number of Transaction Sets received	**M N0 1/6**
M	**AK904**	**2**	**Number of Accepted Transaction Sets** Number of accepted Transaction Sets in a Functional Group	**M N0 1/6**
	AK905	**716**	**Functional Group Syntax Error Code** Code indicating error found based on the syntax editing of the functional group header and/or trailer 1 Functional Group Not Supported 2 Functional Group Version Not Supported	**O ID 1/3**

	3	Functional Group Trailer Missing
	4	Group Control Number in the Functional Group Header and Trailer Do Not Agree
	5	Number of Included Transaction Sets Does Not Match Actual Count
	6	Group Control Number Violates Syntax
	10	Authentication Key Name Unknown
	11	Encryption Key Name Unknown
	12	Requested Service (Authentication or Encryption) Not Available
	13	Unknown Security Recipient
	14	Unknown Security Originator
	15	Syntax Error in Decrypted Text
	16	Security Not Supported
	17	Incorrect Message Length (Encryption Only)
	18	Message Authentication Code Failed
	19	S1E Security End Segment Missing for S1S Security Start Segment
	20	S1S Security Start Segment Missing for S1E End Segment
	21	S2E Security End Segment Missing for S2S Security Start Segment
	22	S2S Security Start Segment Missing for S2E Security End Segment
	23	S3E Security End Segment Missing for S3S Security Start Segment
	24	S3S Security Start Segment Missing for S3E End Segment
	25	S4E Security End Segment Missing for S4S Security Start Segment
	26	S4S Security Start Segment Missing for S4E Security End Segment

AK906 716 Functional Group Syntax Error Code O ID 1/3

Code indicating error found based on the syntax editing of the functional group header and/or trailer

1	Functional Group Not Supported
2	Functional Group Version Not Supported
3	Functional Group Trailer Missing
4	Group Control Number in the Functional Group Header and Trailer Do Not Agree
5	Number of Included Transaction Sets Does Not Match Actual Count
6	Group Control Number Violates Syntax
10	Authentication Key Name Unknown

11	Encryption Key Name Unknown
12	Requested Service (Authentication or Encryption) Not Available
13	Unknown Security Recipient
14	Unknown Security Originator
15	Syntax Error in Decrypted Text
16	Security Not Supported
17	Incorrect Message Length (Encryption Only)
18	Message Authentication Code Failed
19	S1E Security End Segment Missing for S1S Security Start Segment
20	S1S Security Start Segment Missing for S1E End Segment
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment
23	S3E Security End Segment Missing for S3S Security Start Segment
24	S3S Security Start Segment Missing for S3E End Segment
25	S4E Security End Segment Missing for S4S Security Start Segment
26	S4S Security Start Segment Missing for S4E Security End Segment

AK907 716 Functional Group Syntax Error Code O ID 1/3

Code indicating error found based on the syntax editing of the functional group header and/or trailer

1	Functional Group Not Supported
2	Functional Group Version Not Supported
3	Functional Group Trailer Missing
4	Group Control Number in the Functional Group Header and Trailer Do Not Agree
5	Number of Included Transaction Sets Does Not Match Actual Count
6	Group Control Number Violates Syntax
10	Authentication Key Name Unknown
11	Encryption Key Name Unknown
12	Requested Service (Authentication or Encryption) Not Available
13	Unknown Security Recipient
14	Unknown Security Originator
15	Syntax Error in Decrypted Text
16	Security Not Supported

17	Incorrect Message Length (Encryption Only)
18	Message Authentication Code Failed
19	S1E Security End Segment Missing for S1S Security Start Segment
20	S1S Security Start Segment Missing for S1E End Segment
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment
23	S3E Security End Segment Missing for S3S Security Start Segment
24	S3S Security Start Segment Missing for S3E End Segment
25	S4E Security End Segment Missing for S4S Security Start Segment
26	S4S Security Start Segment Missing for S4E Security End Segment

AK908 716 Functional Group Syntax Error Code O ID 1/3

Code indicating error found based on the syntax editing of the functional group header and/or trailer

1	Functional Group Not Supported
2	Functional Group Version Not Supported
3	Functional Group Trailer Missing
4	Group Control Number in the Functional Group Header and Trailer Do Not Agree
5	Number of Included Transaction Sets Does Not Match Actual Count
6	Group Control Number Violates Syntax
10	Authentication Key Name Unknown
11	Encryption Key Name Unknown
12	Requested Service (Authentication or Encryption) Not Available
13	Unknown Security Recipient
14	Unknown Security Originator
15	Syntax Error in Decrypted Text
16	Security Not Supported
17	Incorrect Message Length (Encryption Only)
18	Message Authentication Code Failed
19	S1E Security End Segment Missing for S1S Security Start Segment
20	S1S Security Start Segment Missing for S1E End Segment
21	S2E Security End Segment Missing for S2S Security Start

		Segment	
	22	S2S Security Start Segment Missing for S2E Security End Segment	
	23	S3E Security End Segment Missing for S3S Security Start Segment	
	24	S3S Security Start Segment Missing for S3E End Segment	
	25	S4E Security End Segment Missing for S4S Security Start Segment	
	26	S4S Security Start Segment Missing for S4E Security End Segment	

AK909 716 Functional Group Syntax Error Code O ID 1/3

Code indicating error found based on the syntax editing of the functional group header and/or trailer

1	Functional Group Not Supported
2	Functional Group Version Not Supported
3	Functional Group Trailer Missing
4	Group Control Number in the Functional Group Header and Trailer Do Not Agree
5	Number of Included Transaction Sets Does Not Match Actual Count
6	Group Control Number Violates Syntax
10	Authentication Key Name Unknown
11	Encryption Key Name Unknown
12	Requested Service (Authentication or Encryption) Not Available
13	Unknown Security Recipient
14	Unknown Security Originator
15	Syntax Error in Decrypted Text
16	Security Not Supported
17	Incorrect Message Length (Encryption Only)
18	Message Authentication Code Failed
19	S1E Security End Segment Missing for S1S Security Start Segment
20	S1S Security Start Segment Missing for S1E End Segment
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment
23	S3E Security End Segment Missing for S3S Security Start Segment
24	S3S Security Start Segment Missing for S3E End Segment
25	S4E Security End Segment Missing for S4S Security Start

	Segment
26	S4S Security Start Segment Missing for S4E Security End Segment

Segment: **SE** **Transaction Set Trailer**
Position: 080
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
M	**SE02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set Must be same as ST02	**M AN 4/9**

5. Business Data Processing Agreements

The following pages are business data processing agreements reached by CHCS and DEERS while exchanging electronic messages via the X12 Interface Engine.

The DEERS X12 Interface Engine operates as 24 hour 7 days a week application with the exception of scheduled maintenance window. Maintenance Monday – Friday 11:56 p.m. – 1:00 a.m. EST and Saturday 9:00 p.m. – Sunday 6:00 a.m. EST (subject to change upon notice).

5.1. Communication Protocol

5.1.1. Introduction

This section provides a description of how CHCS will communicate with DEERS. The HyperText Transfer Protocol (HTTP) has been selected as the network application protocol by which such communication will occur. DMDC will make available a Web server that will act as an intermediary between CHCS and the DEERS X12 translation engine.

At a fundamental level, CHCS must accomplish the following to communicate with DEERS:

- Connect to the DMDC Web server by using the basic constructs of TCP/IP sockets.
- Package an X12 message in an HTTP formatted request
- Send the HTTP request to the Web server.
- Receive an HTTP response containing the X12 response.

This is not the *only* method by which the HTTP connection/request/response interaction could occur. Some programming languages provide more abstracted methods of using HTTP. For example, Java has several HTTP-related classes, e.g., the HttpUrlConnection class that could be used instead of the Socket class; if such a method is available, then it would be prudent to explore the possibility of utilizing it.

It should be noted that CHCS is NOT required to implement its own Web server.

DEERS expects each CHCS system to have two or more processes or threads communicating with DEERS, via the HTTP protocol described above, at the same time. CHCS may be required to open more connections to DEERS (via the Web server) than are currently used in CHCS's communications with legacy DEERS. The number of connections needed should be adjusted during performance tuning and based on the expected volume of transactions from the particular CHCS site. CHCS and DEERS will jointly develop performance tuning data and guidelines during the contractor-testing phase of the project.

5.1.2. HTTP and the POST Request

HTTP is the application protocol that forms the backbone of the World Wide Web. HTTP has a number of request methods, headers, and codes.[1] The "POST" request best suites the communication needs of both DMDC and CHCS by allowing a client to send large amounts of data to a Web server within the body of the request.

The following is a generic POST format example:

```
POST <URL> HTTP/1.1
Host: <hostname>
Content-Type: <mime-type>
Content-Length: <length>

<body>
```

CHCS will utilize the HTTP POST request to send X12 messages to DEERS.[2] To execute the POST request, CHCS will first open a TCP/IP socket connection to the DMDC Web server. CHCS will then prefix the X12 message with the appropriate POST method headers, an example of which as follows:

[1] For full details on HTTP, see http://www.w3.org/Protocols/.

```
POST http://reprisal.int.dmdc.osd.mil/appj/X12/servlet/X12HTTPServlet HTTP/1.1
Host: reprisal.int.dmdc.osd.mil
Content-Type: application/x-www-form-urlencoded
Content-Length: 462

X12Message=ISA*00*0000000000*00*0000000000*01*901234572000000*01*009088877320000*011014*1840*U*00
401*000000001*0*T*:!GS*HS*901234572000000*009088877320000*20011014*184800*1*X*004010X092!ST*270*0
001!BHT*0022*13*PS101274894DVUP0699f*20011014*184800!HL*1**20*1!NM1*P5*2*DEERS*****46*DMDCDEERS16
00NB!HL*2*1*21*1!NM1*1P*2*CHCS*****SV*101152!HL*3*2*22*0!NM1*IL*1*Fryar!REF*SY*011422599!DMG*D8*1
9710322!EQ*1**FAM*C1!DTP*307*RD8*20010827-20011003!SE*13*0001!GE*1*1!IEA*1*000000001!
```

Notes:

- The URL in the first line of the header is simply an example. The actual URL will be furnished at a later date.
- The blank line between the content-length and the body of the message is required.
- The length referred to in "Content-length" includes the X12 message, the parameter name ("X12Message"), and the “=” sign.
- This is ASCII text in which a CRLF is present after each header line. There are two CRLFs located after the Content-Length that generate a blank line between the header and the body of the request.
- The X12 message itself is one long string. CRLFs are **NOT IMPLIED** after each line within the X12 message. The lines are wrapped due to the limited width of this page.

5.1.3. How CHCS Will Communicate with DEERS

The DMDC Web server will receive the above POST request and route it to a Java servlet that runs on a DMDC application server. The Java servlet then extracts the X12 message from the body of the HTTP POST request, opens a connection to the SeeBeyond Mux eWay, sends the X12 message to the Mux, and waits for a response from the Mux.

The SeeBeyond engine checks the X12 message for HIPAA compliance and then translates it to a proprietary DEERS transfer record (TR). The TR is then sent to DEERS. The SeeBeyond engine waits for and receives the response back from DEERS, translates the response back into HIPAA-compliant X12 format, and then sends the X12 message back through the Mux eWay to the Java servlet.

The Java servlet receives the response from the Mux, packages the response into HTTP format, and sends the response back to CHCS. After having sent the POST request through the socket connection that was created with the DMDC Web server, CHCS will begin reading from that same socket connection. Given that the POST request was formatted similarly to the above example, CHCS will receive the following type of response from the DEERS Web server across the socket connection:

```
HTTP/1.1 200 OK
Date: Wed, 19 Jun 2002 18:26:54 GMT
Server: Oracle9iAS (9.0.2.0.0) Containers for J2EE
Content-Type: text/html

<body - the X12 271 response>
```

[2] Note: HTTP version 1.1 will be used.

5.1.4. HTTP and State

It should be noted that HTTP is a stateless protocol in which each request/response is executed independently. The connection to the Web server is opened, the request sent, the response received, and the connection closed. State is not maintained between POSTs.

HTTP Status (Error) Codes

When the X12 Java HTTP servlet responds back to the CHCS client, the response will contain HTTP headers as well as the body of the response. For example,

```
HTTP/1.1 200 OK
Date: Wed, 19 Jun 2003 18:26:54 GMT
Server: Oracle9iAS (9.0.2.0.0) Containers for J2EE
Content-Type: text/html

<body - the X12 response>
```

The first line of the HTTP headers will contain the HTTP version number, a numeric status code, and a text message associated with the status code. The status code indicates whether or not problems were encountered during the transaction.

The following are the HTTP status codes that CHCS may expect to encounter in responses returned from the X12 Java HTTP servlets:

Status Code	Status Text	Explanation
200	OK	Request was successful.
400	Bad Request	A parameter was missing from the body of the HTTP request sent to the servlet.
500	Internal Server Error	Either a problem exists within the web / application server or there is a communications problem in the network.
502	Bad Gateway	The X12 Servlet is not connected to the X12 Translation Engine.
503	Service Unavailable	The X12 Servlet did not receive a response from the X12 Engine (A timeout occurred).

5.2. Security

5.2.1. Introduction

HIPAA legislation mandates protection of the privacy of electronically transmitted health care information. This section provides a description of how CHCS and DEERS will meet this requirement.

5.2.2. Virtual Private Network

In compliance with the Tri-Service Infrastructure Management Program Office (TIMPO) desire to integrate CHCS-to-DEERS security within TIMPO's enterprise-wide security solution for MHS, a Virtual Private Network (VPN) will be responsible for securing the privacy of the data transmitted between DEERS and CHCS. The VPN's primary function will be to perform services to protect and secure the data being sent over the Defense Information System Network (DISN).

5.2.3. Virtual Private Network Equipment

Each CHCS site will be equipped with an Avaya VPN hardware device. Tri-Service Infrastructure Management Program Office (TIMPO) will provide DMDC with a similar, compatible Avaya VPN device, which will reside at Auburn Hills, Michigan. A backup VPN appliance will also be provided and stored at Auburn Hills, to be used in the event of a failure in the primary VPN device.

5.2.4 Management of the Virtual Private Network

DISA will be responsible for the management of the VPN. The roles and responsibilities of CHCS and DMDC still need to be defined, with respect to the installation, configuration, management, maintenance, and response to various types of problems and alerts. DMDC and CHCS/TIMPO will work together to develop such roles, responsibilities, procedures and processes.

DMDC will have the capability of doing real-time monitoring of the VPN status.

5.3. Business Rules Processing

5.3.1 General Processing Requirements

It has been established and agreed upon that the CHCS Interface with DEERS is an on-line/real-time query and response interaction. Each inquiry/update will be encapsulated in an ASC X12 Interchange and Functional Group envelope consistent with the 4010 version of the ASC X12 Standard, and in accordance with the HIPAA 4010X092 Implementation Guideline where applicable.

The agreed upon element delimiter, sub-element delimiter and segment terminator which will be used to construct X12 messages are {* , : , ! } respectively. Each inquiry/update will have a unique trace number assigned by the external-trading partner. The 270/271 BHT03 element must be 20 bytes in length - alphanumeric. The 275 BGN02 element must be 20 bytes in length - alphanumeric.

PERSON IDENTIFICATION

As stated in the EIS, the Inquiry Person ID Type Code and the Inquiry Person ID are required when performing an inquiry if the Patient ID is not used. The sponsor's Inquiry Person Id Type Code and Inquiry Person Id or the sponsor's Patient ID is should be supplied on all inquiries, exclusion of such data may result in misleading or incorrect response.

PARTIAL MATCH

In observation of the HIPAA Privacy Act DEERS, in those instances where multiple dependents where found the X12 DEERS Interface Engine will return only the sponsor person information of families.

INQUIRIES

The X12 DEERS Interface Engine will return negative acknowledgement of no health care coverage. The Health Care Delivery Program Coverage Code of 000 will be returned. When performing a dependent inquiry, providing the required sponsor level information, if the individual is not found no other family information will be returned. One can re-inquire using a unique ID or perform a sponsor level family inquiry.

APPENDIX A
BUSINESS DATA PROCESSING AGREEMENTS

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Appendix A: Business Data Processing Agreements

We have agreed and established that there are 2 types of possible inquiry/update to the DEERS X12 interface:

1. 270 Healthcare Coverage Eligibility Inquiry
2. 275 Patient Update

We have agreed and established that there are 10 types of possible responses from the DEERS X12 Interface:

1. 271 Full Response - Eligibility data for an individual and/or family.
2. 271 Partial Match Response – Sponsor or person data returned when multiple individuals are found. Used to assist in re-inquiry, a unique identifier (patient identifier) is recommended.
3. 271 Error Response - Person not found, utilizing the Triple A segment.
4. 271 Error Response - DEERS unable to respond utilizing the Triple A segment.
5. 997 Functional Acknowledgment - Message structure in error.
6. TA1 Response - Invalid or Unauthorized Trading Partner relationship.
7. HTTP communication NAK – URL or Servlet failure.
8. 275 Patient Update – Notification of patient/person update.
9. 824 Application Acknowledgment - Signifying a successful or failed patient update.
10. 824 Application Acknowledgment - DEERS unable to respond.

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